(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 2 June 2005 (02.06.2005)

PCT

(10) International Publication Number WO 2005/049846 A3

- (51) International Patent Classification⁷: C12N 15/869,
 A61K 35/76, C12N 7/01, C07K 14/82, C12N 15/11,
 A61K 48/00
- (21) International Application Number:

PCT/GB2004/004908

(22) International Filing Date:

17 November 2004 (17.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

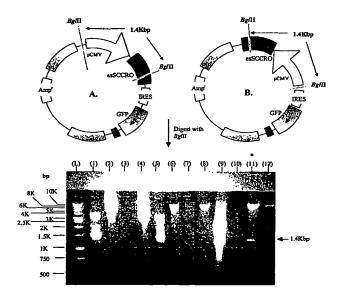
0326798.6 60/541,308 17 November 2003 (17.11.2003) GB 3 February 2004 (03.02.2004) US

(71) Applicants (for all designated States except US): CRUSADE LABORATORIES LIMITED [GB/GB]; PO Box 1716, Glasgow Strathclyde G51 4WF (GB). SLOANE-KETTERING INSTITUTE FOR CANCER RESEARCH [US/US]; Memorial Sloane Kettering Cancer Center, 1275 York Avenue, New York, New York 10021 (US).

- (71) Applicants and
- (72) Inventors: BROWN, Susanne Moira [GB/GB]; Crusade Laboratories Limited, PO Box 1716, Glasgow Strathclyde G51 4WF (GB). DUNN, Paul [GB/GB]; Crusade Laboratories Limited, PO Box 1716, Glasgow Strathclyde G51 4WF (GB). SINGH, Bhuvanesh [US/US]; 86-79 Sancho Street, Holliswood, New York, New York 11423 (US). GANLY, Ian [GB/US]; 504 East 63rd Street, Apartment 26S, New York, New York 10021 (US).
- (74) Agents: CLEGG, Richard et al.; Mewburn Ellis LLP, York House, '23 Kingsway, London Greater London WC2B 6HP (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: MUTANT HERPES SIMPLEX VIRUS AND USE THEREOF IN THE TREATMENT OF SQUAMOUS CELL CANCER



(57) Abstract: An herpes simplex virus wherein the herpes simplex virus genome comprises nucleic acid encoding an antisense to the squamous cell carcinoma related oncogene (asSCCRO); and an herpes simplex virus wherein the herpes simplex virus genome comprises nucleic acid encoding a short interfering ribonucleic acid (siRNA) molecule that is capable of repressing or silencing expression of squamous cell carcinoma related oncogene (SCCRO) nucleic acid or polypeptide are disclosed together with methods for generation and applications of such viruses.

WO 2005/049846 A3



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
 6 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.